

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF A EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 607 (HOG NECK RD)/ (MAGOTHY BRIDGE RD) AT MD 177 MOUNTAIN ROAD IN ANNE ARUNDEL COUNTY. THE LOOP DETECTION SHALL BE REMOVED FROM THE INTERSECTION AND REPLACED WITH VIDEO DETECTION CAMERAS.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A EXISTING BASE MOUNTED CABINET WAS INSTALLED AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR THE ACTUATION OF THE MAINLINE LEFT TURNS FOR MD 177 (MOUNTAIN ROAD) AND THE SIDE STREET PRESENCE DETECTION FOR MD 607 (HOG NECK RD/ MAGOTHY BRIDGE RD)

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 841-1019  
MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 841-1031  
MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 841-1013  
MR. JOHN S. MAYS, DISTRICT UTILITIES ENGINEER  
PHONE: (410) 841-1039  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. ED RODENHIZER, SHA SIGNAL SHOP  
PHONE: (410) 787-7650

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION
9086	VIDEO INTERFACE EQUIPMENT

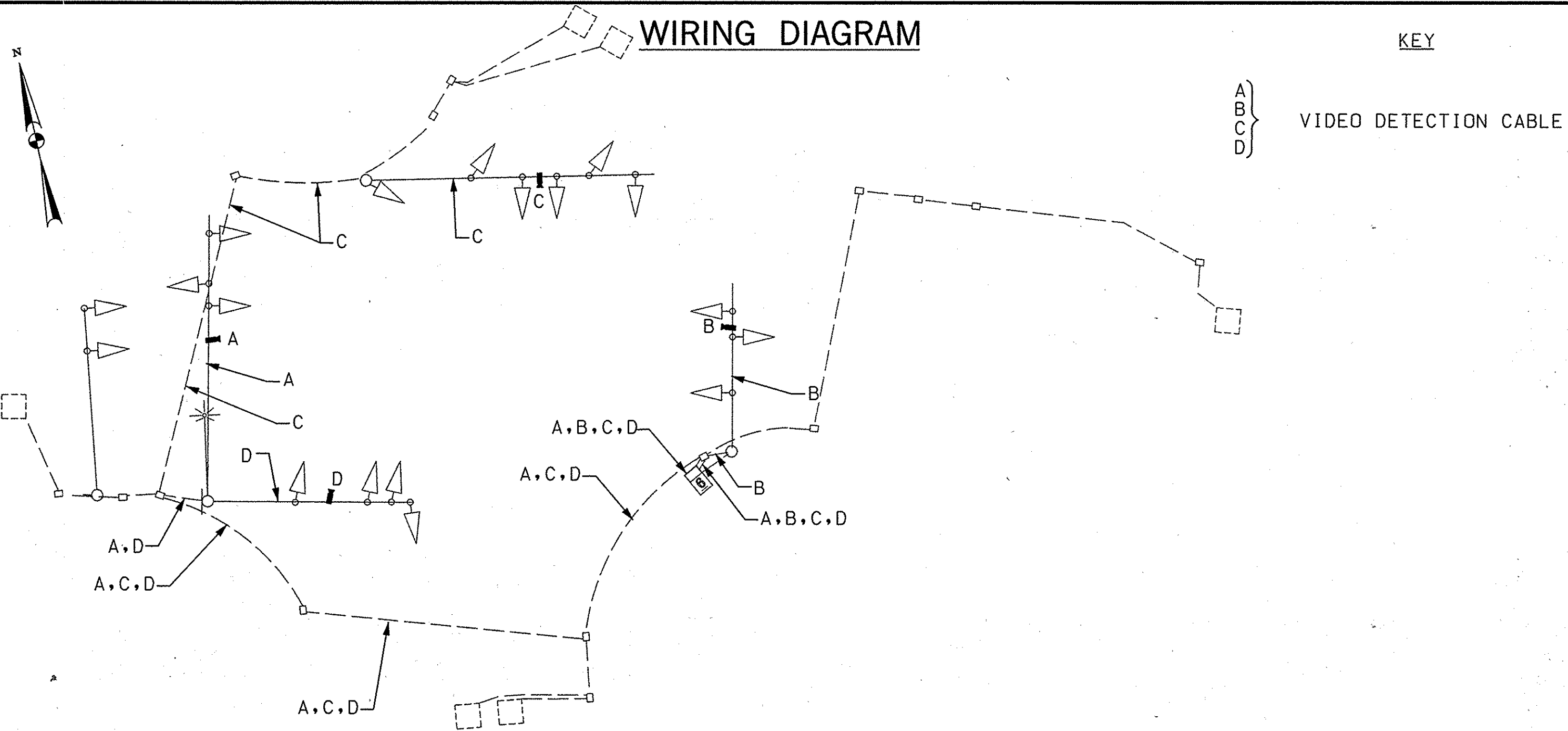
UNITS	QUANTITY
EA	1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION
1001	MAINTENANCE OF TRAFFIC
8004	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8026	VIDEO DETECTION CAMERA
8027	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
8028	CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER

UNITS	QUANTITY
LS	1
EA	1
EA	4
EA	1
EA	3

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
1 AND 6 CHANGE	←YG	←YG	G	R	R	R	R	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
PHASE 2 AND 5	R	R	R	←GG	←GG	G	G	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
2 AND 5 CHANGE	R	R	R	←YG	←YG	G	G	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
PHASE 2 AND 6	G	G	G	G	G	G	G	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R
PHASE 3 AND 7	R	R	R	R	R	RG	RG	DARK	DARK	←G-	←G-	R	R	←G-	R	←G-	R	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																		
PHASE 3 AND 8	R	R	R	R	R	R	R	DARK	DARK	←Y-	←Y-	G	G	←R-	R	←R-	R	R
3 AND 8 CHANGE	R	R	R	R	R	R	R	DARK	DARK	←Y-	←Y-	G	G	←R-	R	←R-	R	R
PHASE 4 AND 7	R	R	R	R	R	RG	RG	DARK	DARK	←R-	←R-	R	R	←G-	G	←G-	G	G
4 AND 7 CHANGE	R	R	R	R	R	RY	RY	DARK	DARK	←R-	←R-	R	R	←Y-	G	←Y-	G	G
PHASE 4 AND 8	R	R	R	R	R	R	R	DARK	DARK	←R-	←R-	G	G	←R-	G	←R-	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	R	DARK	DARK	←R-	←R-	Y	Y	←R-	Y	←R-	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	DARK	DARK	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
FIRE PRE-EMPTION																		
PRE-EMPTION PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	FL/Y	FL/Y	←R-	←R-	R	R	←R-	R	←R-	R	R
PRE-EMPTION CLEARANCE PHASE 1 AND 6	←YG	←YG	G	R	R	R	R	FL/Y	FL/Y	←R-	←R-	R	R	←R-	R	←R-	R	R
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	G	DARK	DARK	←R-	←R-	R	R	←R-	R	←R-	R	R

TOD NO: AT724-15  
SHA No: AA538A59/B59  
MD 177 @ Catherine Ave: MD 177  
@ MD 607

**SABRA, WANG & ASSOCIATES, INC.**  
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**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 177 (MOUNTAIN ROAD)  
AND MD607 (HOG NECK RD)  
(MAGOTHY BRIDGE RD)**  
PASADENA, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 10/06 CONTRACT NO. AT7245185

DESIGNED BY S.SMITH COUNTY ANNE ARUNDEL  
DRAWN BY J.WOOD LOGMILE 02017704.22  
CHECKED BY S.RENZI T.I.M.S. NO. H882  
F.A.P. NO. TOD NO.

TS NO. 106H-GI DRAWING 2 OF 2 SHEET NO. OF